

**CLAIMS:**

1. An apparatus (250,260) in a biometric measurement system (200) that adaptively sets at least one adjustable biometric measurement threshold (230) in said biometric measurement system (200).

2. An apparatus (250,260) as claimed in Claim 1 wherein said apparatus (250,260) adaptively sets said at least one adjustable biometric measurement threshold (230) in said biometric measurement system (200) using at least one value of an environmental parameter of an ambient environment of said biometric measurement system (200).

3. An apparatus (250,260) as claimed in Claim 2 wherein said apparatus (250,260) comprises:

an environmental sensor (250) that measures said at least one value of said environmental parameter of said ambient environment of said biometric measurement system (200); and

an adaptive threshold setting unit (260) that adaptively sets said at least one adjustable biometric measurement threshold using said at least one value of said environmental parameter measured by said environmental sensor (250).

4. An apparatus (250,260) as claimed in Claim 3 wherein said biometric measurement system (200) comprises a biometric sensor (210) and an analysis unit (220), and wherein said analysis unit (220) analyzes biometric measurements from said biometric sensor (210) using at least one adjustable biometric measurement threshold adaptively set by said adaptive threshold setting unit (260).

5. An apparatus (350,360) as claimed in Claim 4 wherein said biometric measurement system (300) comprises a voice identification system (300) and said environmental parameter measured by said environmental sensor (350) comprises a signal to noise ratio.

6. An apparatus (450,460) as claimed in Claim 4 wherein said biometric measurement system (400) comprises a face recognition system (400) and said environmental parameter measured by said environmental sensor (450) comprises light intensity.

7. An apparatus (550,560) as claimed in Claim 4 wherein said biometric measurement system (500) comprises a fingerprint identification system (500) and said environmental parameter measured by said environmental sensor (550) comprises air humidity.

8. An apparatus (650,660,670,680) as claimed in Claim 2 wherein said apparatus (650,660,670,680) comprises:

a plurality of environmental sensors (650,670,680) in which each environmental sensor (650,670,680) measures a value of an environmental parameter of said ambient environment of said biometric measurement system (600); and

an adaptive thresholds setting unit (660) that adaptively sets each of a plurality of adjustable biometric measurement thresholds (630) using a respective environmental parameter of said plurality of environmental parameters measured by said plurality of environmental sensors (650,670,680).

9. A method for use in analyzing biometric measurements in a biometric measurement system, said method comprising the step of adaptively setting at least one adjustable biometric measurement threshold in said biometric measurement system.

10. The method as claimed in Claim 9 further comprising the step of:  
using at least one value of an environmental parameter of an ambient environment of said biometric measurement system to set said at least one adjustable biometric measurement threshold in said biometric measurement system.

11. The method as claimed in Claim 10 further comprising the steps of:  
measuring with an environmental sensor said at least one value of said environmental parameter of said ambient environment of said biometric measurement

system; and

adaptively setting with an adaptive threshold setting unit said at least one adjustable biometric measurement threshold using said at least one value of said environmental parameter measured by said environmental sensor.

12. The method as claimed in Claim 11 wherein said biometric measurement system comprises a biometric sensor and an analysis unit, and wherein said method further comprises the step of:

analyzing in said analysis unit biometric measurements from said biometric sensor using at least one adjustable biometric measurement threshold adaptively set by said adaptive threshold setting unit.

13. The method as claimed in Claim 12 wherein said biometric measurement system comprises a voice identification system and said environmental parameter measured by said environmental sensor comprises a signal to noise ratio.

14. The method as claimed in Claim 12 wherein said biometric measurement system comprises a face recognition system and said environmental parameter measured by said environmental sensor comprises light intensity.

15. The method as claimed in Claim 12 wherein said biometric measurement system comprises (500) a fingerprint identification system (500) and said environmental parameter measured by said environmental sensor (550) comprises air humidity.

16. The method as claimed in Claim 10 further comprising the steps of:  
measuring with each environmental sensor of a plurality of environmental sensors a value of an environmental parameter of said ambient environment of said biometric measurement system; and

adaptively setting with an adaptive thresholds setting unit each of a plurality of adjustable biometric measurement thresholds using a respective environmental parameter measured by each environmental sensor of said plurality of environmental sensors.

17. A signal generated by a method for use in analyzing biometric measurements in a biometric measurement system (200), said method comprising the step of adaptively setting at least one adjustable biometric measurement threshold (230) in said biometric measurement system (200).

18. A signal as claimed in Claim 17 wherein said method further comprises the step of:

using at least one value of an environmental parameter of an ambient environment of said biometric measurement system (200) to set said at least one adjustable biometric measurement threshold (230) in said biometric measurement system (200).

19. A signal as claimed in Claim 18 wherein said method further comprises the steps of:

measuring with an environmental sensor said at least one value of said environmental parameter of said ambient environment of said biometric measurement system; and

adaptively setting with an adaptive threshold setting unit said at least one adjustable biometric measurement threshold using said at least one value of said environmental parameter measured by said environmental sensor.

20. A signal as claimed in Claim 19 wherein said biometric measurement system comprises a biometric sensor and an analysis unit, and wherein said method further comprises the step of:

analyzing in said analysis unit biometric measurements from said biometric sensor using at least one adjustable biometric measurement threshold adaptively set by said adaptive threshold setting unit.

21. A signal as claimed in Claim 20 wherein said biometric measurement system comprises a voice identification system and said environmental parameter measured by said environmental sensor comprises a signal to noise ratio.

22. A signal as claimed in Claim 20 wherein said biometric measurement system comprises a face recognition system and said environmental parameter measured by said environmental sensor comprises light intensity.

23. A signal as claimed in Claim 20 wherein said biometric measurement system comprises a fingerprint identification system and said environmental parameter measured by said environmental sensor comprises air humidity.

24. A signal as claimed in Claim 18 wherein said method further comprises the steps of:

measuring with each environmental sensor of a plurality of environmental sensors a value of an environmental parameter of said ambient environment of said biometric measurement system; and

adaptively setting with an adaptive thresholds setting unit each of a plurality of adjustable biometric measurement thresholds using a respective environmental parameter measured by each environmental sensor of said plurality of environmental sensors.